PATENT COOPERATION 7

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT			
see form PCT/ISA/220				INTERNATION (F	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 bis.1)		
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER A See paragraph 2 below			
International application No. PCT/CA2004/000473					Priority date (day/month/year) 26.03.2003		
		, ,	both national classification 0, C08L3/12, A61L15/				
Applicant LE GROUPE LYSAC INC.							
1. 2.	This opinion contains indications relating to the following items: Box No. Basis of the opinion Box No. Priority Box No. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. Lack of unity of invention Box No. Lack of unity of invention Box No. Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. Certain documents cited Box No. Certain defects in the international application Box No. Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
Name and mailing address of the ISA:				Authorized Officer			



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10/550748 JC12 Rec'd PCT/PTC 23 SEP 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/000473

	Box	No	b. I Basis of the opinion					
1.	Witl the	n reg lanç	gard to the language, this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.					
This opinion has been established on the basis of a translation from the original language into the follolanguage, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).								
2.	With	h re ess	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:					
	a. ty	/pe	of material:					
	{		a sequence listing					
	!	כ	table(s) related to the sequence listing					
	b. f	orm	at of material:					
	(ב	in written format					
	١		in computer readable form					
	c. ti	me	of filing/furnishing:					
			contained in the international application as filed.					
	I		filed together with the international application in computer readable form.					
	1		furnished subsequently to this Authority for the purposes of search.					
3.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/000473

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_	Во	x No. II	Priority				_			
1.		□ The following document has not been furnished:								
		copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).								
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).								
Consequently it has not been possible to consider the validity of the priority claim. This opin nevertheless been established on the assumption that the relevant date is the claimed prior										
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.	Add	ditional d	observations, if nece	essary:						
		x No. V lustrial	Reasoned state applicability; citation	ment und ons and e	er Rule 43 explanation	bis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement	_			
1.	Sta	tement								
	Nov	velty (N))	Yes: No:	Claims Claims	14-35 1-13				
	Inv	entive st	tep (IS)	Yes: No:	Claims Claims	14-25 1-13,26-35				
	Ind	ustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-35				
2.	Cita	ations a	nd explanations		,					

see separate sheet

Re Item V.

The following documents are referred to in this communication:

✓D1: W.-M. KULICKE ET AL.: "Swelling and Rheological Studies of Some Starch Hydrogels" STARCH-STÄRKE, vol. 41, no. 4, 1989, pages 140-146, XP009032649 WEINHEIM

√D2 : EP 0 000 247 B (STALEY MFG CO A E) 4 August 1982

D3: EP 0 769 501 A (UNILEVER PLC; UNILEVER NV (NL)) 23 April 1997
D4: GB 2 043 668 A (FRESENIUS CHEM PHARM IND) 8 October 1980

Document D1 discloses on page 141, item 2.2 the crosslinking of amylopectin with epichlorhydrin. The water retention capacity of the product is measured (Fig. 5 and 6). Thus, contrary to the statement on page 3, lines 11-15 of the description, the product of D1 is an absorbent material and destroys the novelty of the subject-matter of claims 1, 3, 4 and 10.

Document D2 discloses in claim 1 and example 1 the preparation of water absorbing crosslinked waxy maize starch. The disclosure of this document destroys the novelty of the subject-matter of claims 1, 3, 4 and 7-9.

Document D3 discloses in claims 1-9 and examples 1-14 a process comprising the steps of a) mixing amylopectin (waxy maize starch) with water, b) feeding the mixture into an extruder to produce an extrudate, c) cooling the extrudate and d) grinding the extrudate. This process comprises steps a) - d) of present claim 13 wherein the cooling step of D3 is considered as an equivalent to the aging step of claim 13.

The products of D3 are used in the food industry. However, being prepared by a process according to claim 13 and using the same ingredients, the products must as well have absorbing properties. Therefore D3 is considered as novelty destroying for the subject-matter of claims 1, 2, 4, 7-9, 13 and 23.

Document D4 discloses in claims 1, 2 and 9 a crosslinked hydroxyethyl starch comprising a proportion of at least 90% amylopectin and its use as a wound secretion absorbent, see also page 1, line 15 to page 2, line 3. The disclosure of D4 is considered novelty destroying of the subject-matter of claims 1, 3, 4 and 10-12.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/CA2004/000473



No relevant prior art is available for the process of claim 14 or a process containing the combined features of claims 13 and 24.



With respect to claims 26 to 35 the combination of an absorbent material as known from D1 to D4 with a further known absorbent material and its use is not deemed to involve an inventive step.